

C-0 Outfitting Schedule

Tom Lackowski
Director's Mini-Review
May 27, 2004

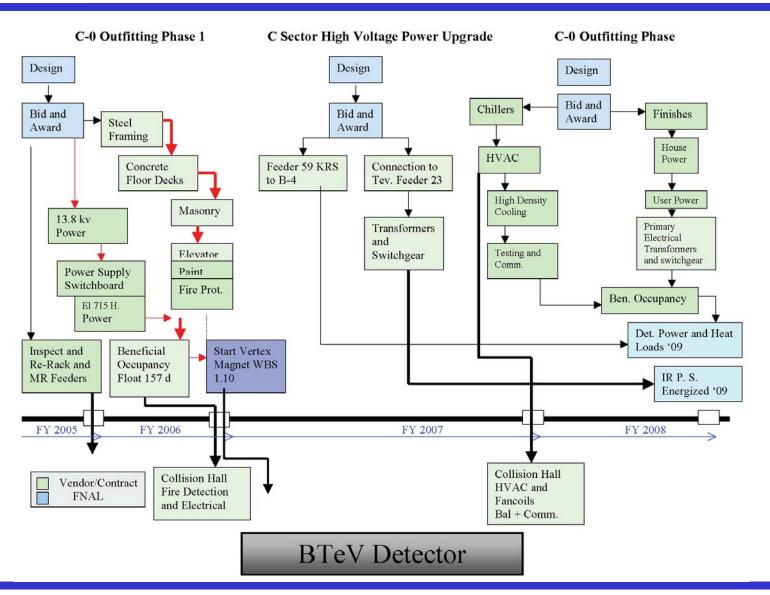


Overview of Changes

- > Schedule changes and the changes to the current float are a result of :
 - Using the difference between "Ready By" and "Need By" dates to calculate float
 - Concentrating the Phase 1 high voltage work (B4 to C0 feeder work) late in the Phase 1 overall schedule. (This places the high voltage costs to FY 06 while still providing the power to test the vertex magnet on time.)
 - Collision Hall work is planned to take full advantage of any early TeVatron shutdowns.
 - Account for additional Conceptual Design to minimize Title 2 engineering duration.

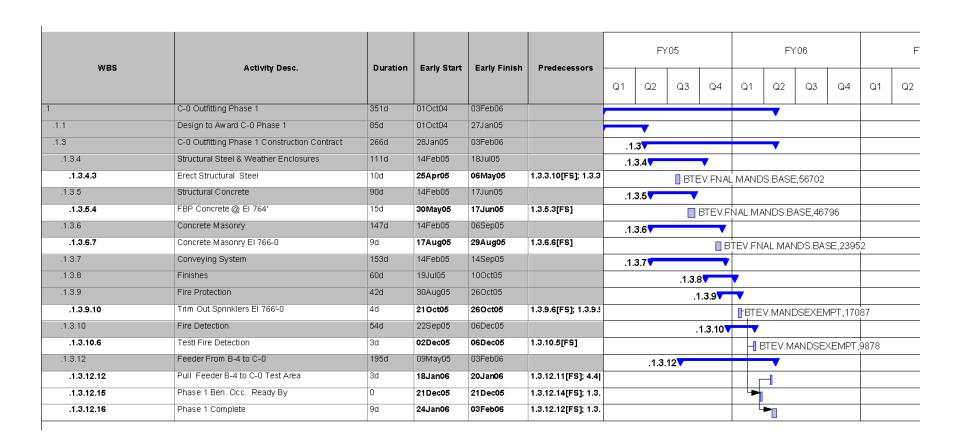


Description of project flow WBS 3.0





Gantt Chart





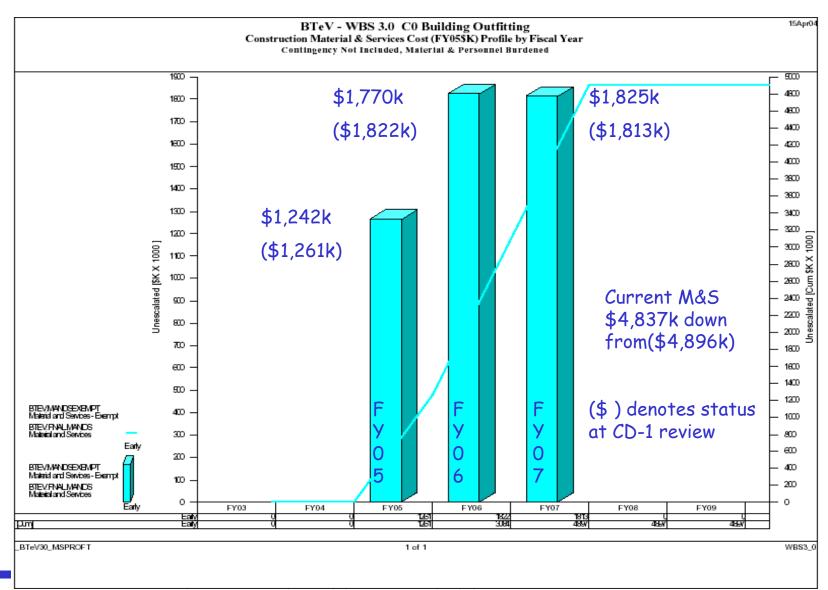
WBS 3.0 Total Construction Cost

Activity ID	Activity Name	II I				Labor Contingency (%)			Total FY07			Total FY05-09
II I	C-0 Outfitting Phase 1	1,753,094	276,405	2,029,499	20	20	1,588,689	846,710	0	0	0	2,435,399
II I	C-0 Outfitting Phase 2	1,859,031	444,071	2,303,103	22	20	0	280,303	2,519,673	0	0	2,799,976
	C Sector High Voltage Power Upgrade	599,249	175,471	774,720	20	20	0	843,630	86,034	0	0	929,664
	Pre Procured Items	625,337	38,347	663,685	20	20	174,539	621,883	0	0	0	796,422
II I	Subproject 3.0	4,836,712	934,294	5,771,006	21	20	1,763,228	2,592,526	2,605,706	0	0	6,961,460

Costs reduced by \$251K

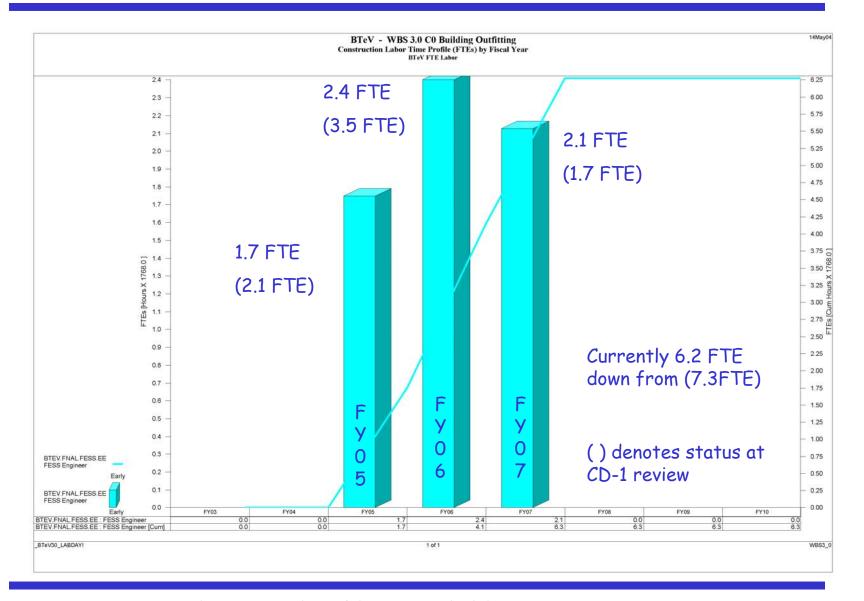


M&S Profile





Labor Profile





Critical Dates

➤ Needed by dates:

Beneficial Occupancy of the Lower Level & Upper
 Assembly Areas
 28 July 06

 Assembly Service Building Complete
 01 May 08

> Ready dates:

Beneficial Occupancy of the Lower & Upper Assembly Areas
 21 Dec. 05
 157 work days float
 Outfitting Phase 1 Complete – 06 Feb. 06
 124 work days float
 C Sector High Voltage - 24 Oct 06
 Assembly Service Building Complete
 6 July 07
 214 work days float

➤ Beneficial Occupancy of Lower and Upper Assembly Area allows the start of the vertex magnet. Electrical power for magnet testing is available at Phase 1 complete.



Float Analysis

- The ready by dates are realistic and achievable.
- The durations and logic used to calculate these dates are based on previous experience at Fermilab.
- There is schedule contingency or float of 157 work days between the "Ready By" date and the "Need By" date for the Beneficial Occupancy of the Lower and Upper Assembly Areas.
- 157 work days of float provides a very high level of confidence for on time completion.



Responses to CD1 Recommendations

Recommendations:

- ➤ Define and document boundaries and interfaces with both integration and interaction region on time for CD-2 review.
 - The effort to formalize the boundaries between subprojects and define the requirements has been started and will be completed in advance of the CD-2 review. The boundary between subprojects have been established and are reflected in the subproject current estimates.
- ➤ Involve key procurement personnel and approving officials in advance to allow for rapid placement of the large Phase I procurement at project approval (CD-2).
 - Several meetings have occurred with members of the Business Services and WBS 3.0 to discuss the BTeV procurement. The procurement department is developing a detailed flow chart for the activities leading to the contract award for C0 Outfitting Phase 1.